

CLAIMS

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent is:

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1. A method for interfacing a program on an IMS system to a program in another program environment, comprising the steps of: scanning an IMS transaction with the program on the IMS system; and generating a program interface, the program interface providing means for invoking the IMS transaction and converting data between the IMS transaction and the program in another program environment.

2. The method of claim 1, wherein the interface comprises:
a transaction part which provides for invoking the IMS transaction;
a message part which provides for composing or reading an IMS message; and
a lpage part which provides for dynamic composing or reading of an IMS message.

3. The method of claim 1, further comprising the step of providing a runtime, the runtime comprising:
means for translating data types of the program in another program environment to data types used in a message to the IMS system;
means for composing the message to the IMS system;

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means for translating data types used in a message from the IMS system to data types of the program in another program environment; and

means for reading the message from the IMS system.

4. The method of claim 3, wherein the runtime further comprises means for accessing the IMS transaction via the MQSeries messaging interface.

5. The method of claim 1, further comprising the step of compiling the program interface into the program in another program environment.

6. The method of claim 3, further comprising the step of compiling the runtime into the program in another program environment.

7. The method of claim 1, further comprising the step of providing means for converting code pages between the another program environment and the IMS system.

8. A computer program product for interfacing a program on an IMS system to a program in another program environment, comprising:

instruction means for scanning an IMS transaction with the program on the IMS system; and

instruction means for generating a program interface, the program interface providing means for invoking the IMS transaction and converting data between the IMS transaction and the program in another program environment.

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1 9. The computer program product of claim 8,
2 wherein the interface comprises:
3 a transaction part which provides for invoking
4 the IMS transaction;
5 a message part which provides for composing or
6 reading an IMS message; and
7 a lpage part which provides for dynamic
8 composing or reading of an IMS message.

1 10. The computer program product of claim 8,
2 further comprising instructions means for providing a
3 runtime, the runtime comprising:
4 means for translating data types of the program
5 in another program environment to data types used in a
6 message to the IMS system;
7 means for composing the message to the IMS
8 system;
9 means for translating data types used in a
10 message from the IMS system to data types of the program
11 in another program environment; and
12 means for reading the message from the IMS
13 system.

1 11. The computer program product of claim 10,
2 wherein the runtime further comprises means for accessing
3 the IMS transaction via the MQSeries messaging interface.

1 12. The computer program product of claim 8,
2 further comprising instruction means for compiling the
3 program interface into the program in another program
4 environment.

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1 13. The computer program product of claim 10,
2 further comprising instruction means for compiling the
3 runtime into the program in another program environment.

1 14. The computer program product of claim 8,
2 further comprising instruction means for converting code
3 pages between the another program environment and the IMS
4 system.

1 15. A computer program product for interfacing a
2 program on an IMS system to a program in another program
3 environment, comprising:

4 instruction means for scanning an IMS
5 transaction with the program on the IMS system producing
6 a data description of said IMS transaction; and

7 instruction means for using said data
8 description to generate code for invoking said IMS
9 transaction.

1 16. The computer program product of claim 15,
2 further comprising:

3 instruction means for using said data
4 description to generate code to process message elements
5 of said IMS transaction for use with the program in
6 another language environment.

1 17. A computer program product for interfacing a
2 program on an IMS system to a program in another program
3 environment, comprising:

4 instruction means for invoking an IMS
5 transaction with the program on the IMS system; and

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1 instruction means for converting data between
2 the IMS transaction and the program in another program
3 environment.

1 18. The computer program product of claim 17,
2 wherein the instruction means for converting further
3 comprises:

4 instruction means for translating data types of
5 the program in another program environment to data types
6 used in a message to the IMS system;

7 instruction means for composing the message to
8 the IMS system;

9 instruction means for translating data types
10 used in a message from the IMS system to data types of
11 the program in another program environment; and

12 instruction means for reading the message from
13 the IMS system.

1 19. The computer program product of claim 17,
2 wherein the instruction means for converting further
3 comprises instruction means for accessing the IMS
4 transaction via the MQSeries messaging interface.

1 20. The computer program product of claim 17,
2 further comprising instruction means for converting code
3 pages between the another program environment and the IMS
4 system.

1 21. An article of manufacture comprising a computer
2 usable medium having computer readable program code means
3 therein for executing the method steps of claim 1.

1 22. A system for interfacing a program on an IMS
2 system to a program in another program environment,
3 comprising:

4 means for scanning an IMS transaction with the
5 program on the IMS system; and

6 means for generating a program interface, the
7 program interface providing means for invoking the IMS
8 transaction and converting data between the IMS
9 transaction and the program in another program
10 environment.

1 23. The system of claim 22, further comprising
2 means for providing a runtime, the runtime comprising:

3 means for translating data types of the program
4 in another program environment to data types used in a
5 message to the IMS system;

6 means for composing the message to the IMS
7 system;

8 means for translating data types used in a
9 message from the IMS system to data types of the program
10 in another program environment; and

11 means for reading the message from the IMS
12 system.

1 24. A system for interfacing a program on an IMS
2 system to a program in another program environment,
3 comprising:

4 means for scanning an IMS transaction with the
5 program on the IMS system producing a data description of
6 said IMS transaction; and

7 means for using said data description to
8 generate code for invoking said IMS transaction.

1 25. The system of claim 24, further comprising:
2 means for using said data description to
3 generate code to process message elements of said IMS
4 transaction for use with the program in another language
5 environment.

1 26. A system for interfacing a program on an IMS
2 system to a program in another program environment,
3 comprising:
4 means for invoking an IMS transaction with the
5 program on the IMS system; and
6 means for co nverting data between the IMS
7 transaction and the program in another program
8 environment.

1 27. The system of claim 26, wherein the means for
2 converting further comprises:
3 means for translating data types of the program
4 in another program environment to data types used in a
5 message to the IMS system;
6 means for composing the message to the IMS
7 system;
8 means for translating data types used in a
9 message from the IMS system to data types of the program
10 in another program environment; and
11 means for interpreting the message from the IMS
12 system.